

ROKSAN

Platinum



ST1308

Dual Mono Stereo Power Amplifier

USER MANUAL

ROKSAN AUDIO LIMITED

6 NORTHFIELD INDUSTRIAL ESTATE
BERESFORD AVENUE ALPERTON
MIDDLESEX HA0 1NW ENGLAND

TEL. +44 (0)208 900 6801
+44 (0)208 900 6802
FAX. +44 (0)208 900 0734

www.roksan.co.uk
email info@roksan.co.uk

Congratulations on your purchase of the ROKSAN **Platinum STI308** Stereo Power Amplifier. This power amplifier is designed and manufactured to the highest specification and rigorously tested to offer you unsurpassed performance for many years of trouble-free pleasure.

Your **Platinum** power amplifier is at the heart of your hi-fi system. Correct installation, set-up and operation of this power amplifier and its partnering equipment will have a profound influence on the sonic performance of the entire system.

Please read the contents of this manual thoroughly. It will help you to understand your hi-fi equipment better and enhance your listening pleasure.

This manual is divided into the following sections:

- Safety Instructions (*accompanying card*)
- Introduction
- Cautions
- Installation
- Setup
- Operation
- Troubleshooting
- Guarantee
- Specifications
- Notes

UNPACKING

Included in the packing of your **Platinum** power amplifier you will find:

- One mains lead fitted with the correct mains power plug for your country
- One information pack and warranty card

After removing these items please retain **all** packing materials. Correct packing is necessary for transportation of your **Platinum** power amplifier.

MAINTENANCE

After disconnecting the power amplifier from the mains supply, the cabinet and front panel may be cleaned with a lightly dampened soft cloth. **Avoid using abrasives or solvents.**

EU DIRECTIVES

This product is designed to comply with the legal provisions of EU Directives 89/3336/EC and 72/23/EC. The standards which have been applied are those which were in force at the time of the introduction of this product.

This product bears the **CE** mark.



This product is compliant to EN 60065.

This product must be earthed. Please ensure that other equipment connected to it is earthed according to the manufacturer's instructions.

AC MAINS SUPPLY

Your **Platinum** power amplifier is set to operate from a fixed supply voltage which is marked on a label next to the mains input plug. Before connecting the mains lead please check that your mains supply corresponds to this label as below:

230V Products	_____	Voltage Range:	_____	220V – 240V
115V Products	_____	Voltage Range:	_____	100V – 120V
100V Products	_____	Voltage Range:	_____	90V – 110V

The mains lead supplied with this product has an IEC mains socket which plugs into the IEC connector on the unit's rear panel. The other end is normally attached to the appropriate mains plug for your country. In the UK this is the standard UK13A plug.

This plug should ordinarily not be removed from the lead. If you *do* remove it, please dispose of it safely so that it cannot be plugged into a mains socket whilst in a potentially dangerous condition. We suggest that you obtain from your dealer a complete replacement lead.

Should you move to another area where either the mains voltage or the mains plugs are different from those as supplied with your power amplifier, please contact the appointed ROKSAN distributor for assistance.

Please observe correct mains polarity at all times.

The power amplifier mains fuses are located on the rear panel next to the IEC mains connector. These must only be replaced by the fuse type and rating as described on the fuse rating label on the rear panel of the unit.

If the equipment is likely to be unused for some time, unplug it from the mains supply.

GENERAL CAUTIONS

FCC WARNING

This equipment may generate or use Radio Frequency energy. The user may lose the right to operate this equipment if unauthorised modifications are made.

INTERFERENCE

Properly installed, this unit should not cause harmful interference to radio communications, There is, however, no guarantee that such interference will not occur in a specific installation. If interference arises (which you can determine by switching the unit off and on) you could try to remedy this problem by the following:

- Re-orient or re-locate the receiving antenna
- Increase the distance between the power amplifier and receiver
- Connect the unit to a different mains circuit from that of the receiver
- Consult your ROKSAN appointed dealer or an experienced Radio/TV technician for help and advice

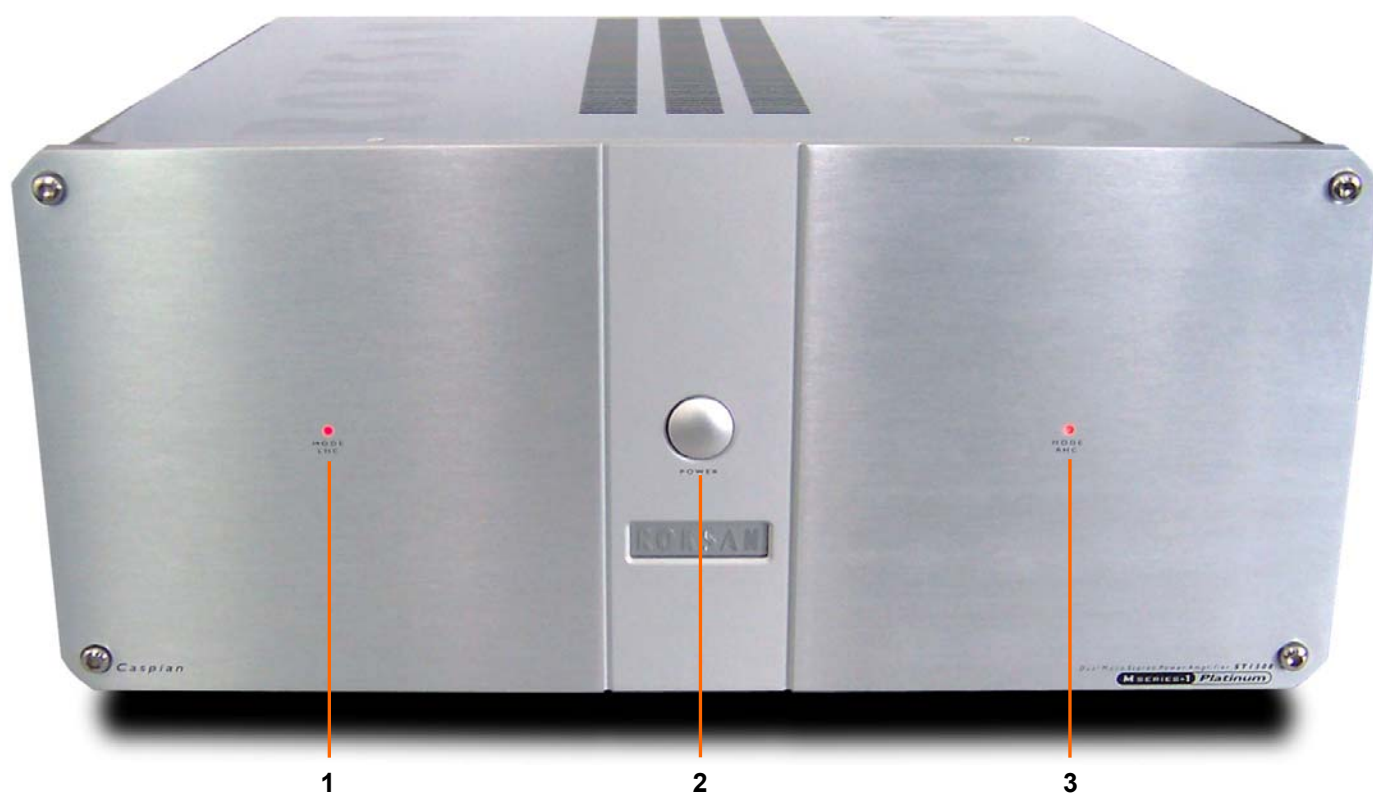
LOCATION

Your **Platinum** power amplifier should be located in a well ventilated area and kept away from sources of heat, dust, humidity and direct sunlight.

The power amplifier may be positioned either as a **free standing** unit or alongside another audio/video product. **Never** place the preamplifier on carpet or any surface likely to hinder normal ventilation. **Never** allow liquids or other objects to fall into the unit.

This unit contains no user serviceable parts.

Do Not remove any panels or attempt to service it yourself. Unauthorised servicing will void the warranty.

ROKSAN Stereo Power Amplifier- Front Panel View**1** LHC Mode Indicator**2** Power Button**3** RHC Mode Indicator

ROKSAN Stereo Power Amplifier - Rear Panel View



- | | |
|-----------|-------------------------------|
| 1 | LHC RCA Input |
| 1A | LHC Balanced XLR Input |
| 2 | RHC RCA Input |
| 2A | RHC Balanced XLR Input |
| 3 | RHC Input RCA/MUTE/XLR Switch |
| 4 | LHC Input RCA/MUTE/XLR Switch |
| 5 | LHC Speaker Output (1) |

- | | |
|-----------|------------------------|
| 6 | LHC Speaker Output (2) |
| 7 | RHC Speaker Output (1) |
| 8 | RHC Speaker Output (2) |
| 9 | IEC Mains Input |
| 10 | Voltage/Fuse Label |
| 11 | Mains Fuse Holder |

CONNECTING MAINS POWER

Please refer to front & rear panel view on Pages 4 & 5.

The moulded IEC connector of the supplied mains lead should be plugged into the socket (9) on the rear of the unit first and then plugged into the mains supply. The Mains power switch (2) is on the front panel of the power amplifier. This switch is normally left on. **If the unit is likely to be unattended for a period of time (Week-end, Holidays etc.) switch it off and for absolute safety unplug the mains lead from the wall.**

Choose a non-resonant, rigid shelf/structure to place your power amplifier on (e.g. dedicated High quality equipment stand with adequate ventilation). The **Platinum** power amplifier utilises specially designed decoupling feet which reduce mechanical vibrations reaching the internals. This feature enhances performance of the power amplifier. *** See opposite:



SIGNAL CONNECTIONS

Signal Input connections:

There are 2 pairs of Inputs on your **Platinum** power amplifier – x2 **RCA (1 & 2)** for LHC & RHC.
x2 **Balanced XLR (1A & 2A)** for LHC & RHC.

Single-ended inputs accept **RCA** Phono Connectors and should be connected according to the standard convention **Right Channel – Red ; Left Channel – White**

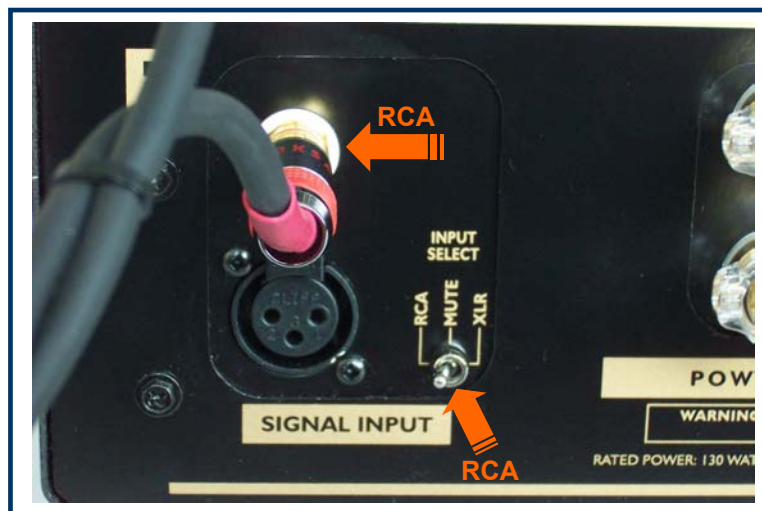
Balanced inputs accommodate **XLR** connectors. These two inputs are provided with a selector switch at the back and can be set to single-ended (**RCA**) or Balanced (**XLR**) or be Disconnected (**Mute**).

*** See below:

Single ended RCA Input

NOTE:

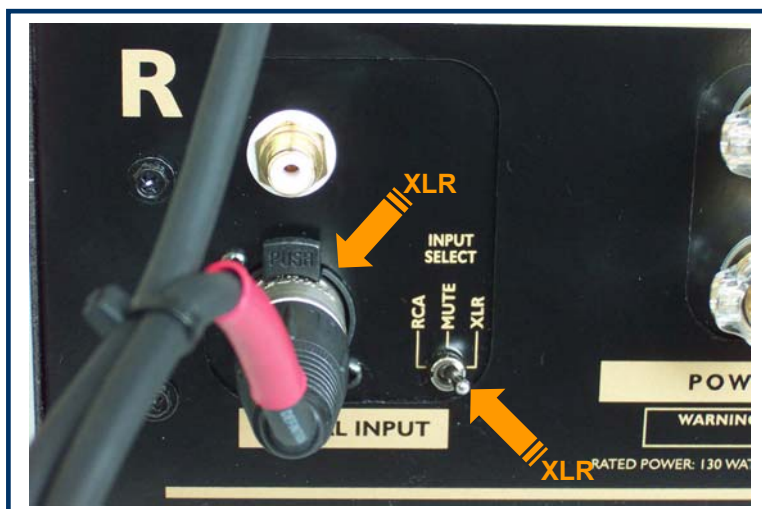
Only one channel shown; repeat for the other channel.
Connect to Preamp Output.



Balanced XLR Input

NOTE:

Only one channel shown; repeat for the other channel.
Connect to Preamp Output.



IMPORTANT NOTE: For optimum performance it is recommended to use high quality inter-connect cables such as **ROKSAN HDC-02A** high definition analogue Cable.

LOUDSPEAKER CONNECTIONS

The **Platinum** power amplifier utilises very high quality speaker binding post terminals; **(5 and/or 6)** for the **Left** Channel and **(7 and/or 8)** for the **Right** Channel. The loudspeakers are connected to the amplifier via these terminals.

Suitable spade connectors or bare speaker wire can be fitted through the cross-holes of the **Platinum** power amplifier speaker terminals.

Suitable 4mm plugs can also fit through the end holes. **Note:** 4mm plugs must be EU approved.

There are two basic types of cable –

- **Figure 8 cable** has two insulated conductors which lie parallel, either side by side, or spaced by insulation.
- **Overall sheathed cable** has both conductors insulated and enclosed in an overall plastic sheath.

Carefully remove any overall sheath or split the figure 8 cable to a depth of about 75mm (3").

Carefully strip the insulation on each wire to a depth of about 12mm (1/2") exposing the bare core. If the conductor is stranded, twist the strands together on each conductor.

Unscrew the binding post. There is a cross-hole about 10mm from the panel end of the binding post. Insert the bared conductor through the hole and tighten the binding post securely making sure that there are no loose strands or bare ends protruding through the post.

Carefully observe polarity ensuring that the RED (+) speaker terminal is connected to the RED (+) amplifier terminal and the BLACK/WHITE (-) speaker terminal to the WHITE (-) amplifier terminal.

When both left and right channels are connected to their respective speakers the amplifiers are ready for use.

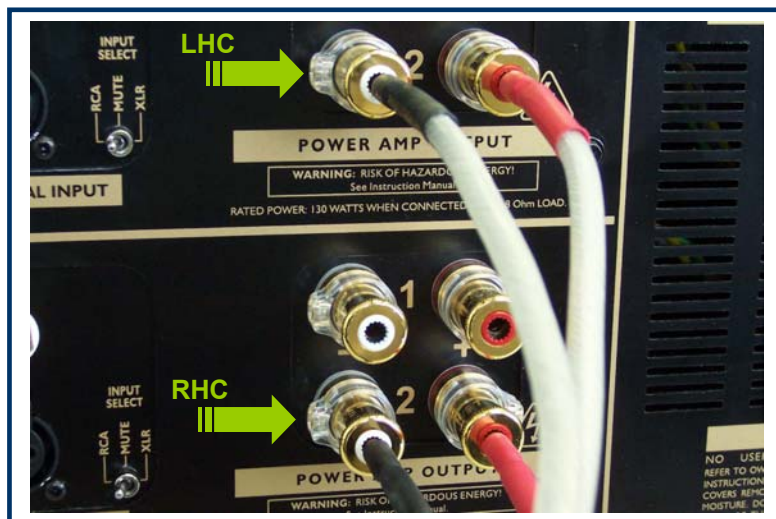
IMPORTANT NOTE: For optimum performance it is recommended to use high quality cables such as **ROKSAN HDC-02S** high definition Loudspeaker Cable. Many speaker cables such as the **ROKSAN HDC-02S** are directional. Please observe this directionality. **DO NOT** use speaker cable with conductor size less than 16 AWG (1.6mm Diameter). The Binding posts accept conductor sizes up to 12 AWG.

*** See below:

Standard Single Wired configuration

NOTE:

On both channels, No. (2) Outputs are used.
You can use either No. (1) or No. (2) Outputs.



If the Loudspeakers utilise more than one drive unit with individual input terminals, for example a Tweeter and a Woofer, then Bi-Amping could improve the overall performance. Dedicated one amplifier to the Tweeter and another amplifier to the Woofer isolates them from each other thus reduces 'distortion' and increases reserved power and dynamics. Speakers generally work far better with most amplifiers when Multi-Amped.

Note: Bi-Wiring connects the Woofer and the Tweeter directly and independently to the amplifier's low impedance output and is the a first step towards Bi-Amping.

Bi- Wired configuration

NOTE:

Only right channel shown. For example:
No. (1) connected to the Tweeter (HF) &
No. (2) connected to the Woofer (LF).

Repeat for the other channel.

* **Note** in Bi-wired mode, any **Terminal Links** on the speakers must be **removed**.



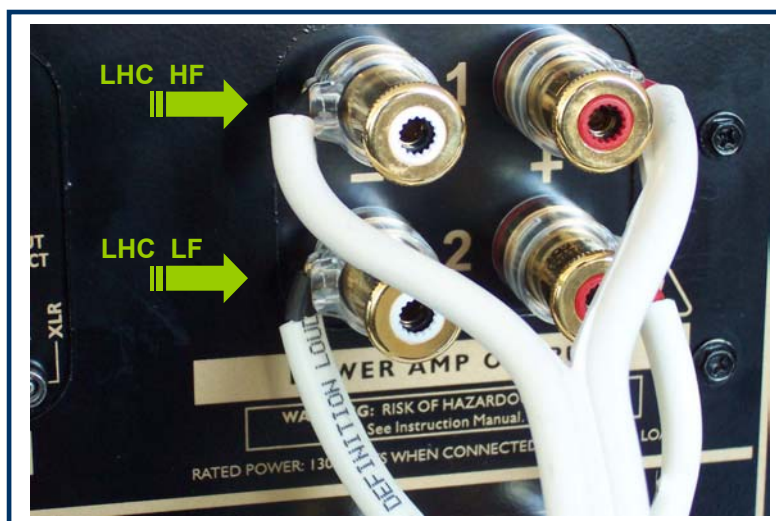
Bi- Wired configuration (Cross-hole)

NOTE:

Only left channel shown; Both No. (1 & 2)
Cross-hole Outputs are used.

* No bare wire strands are exposed.

* Repeat for the other channel.



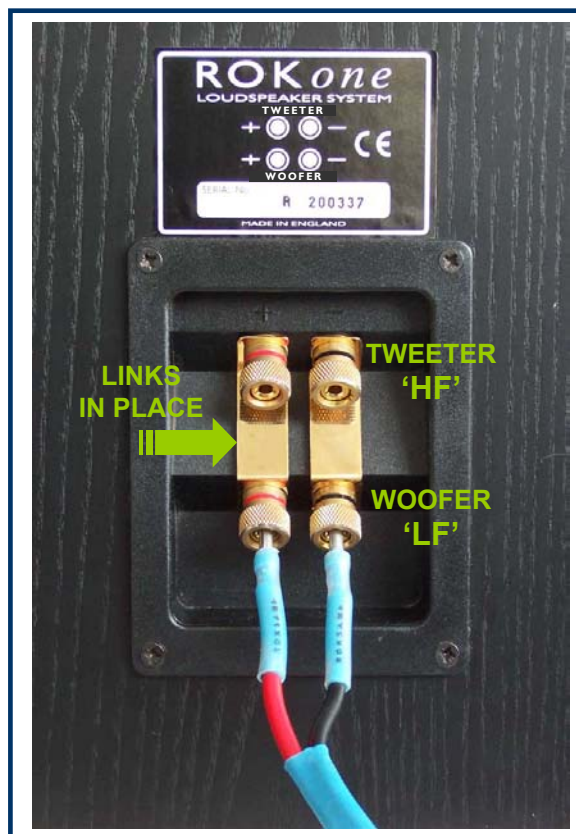
Standard Single Wired configuration

NOTE:

Speaker terminal **Links** are **in place** and only one set of speaker cables used to connect the amplifier outputs to the speaker input terminals.



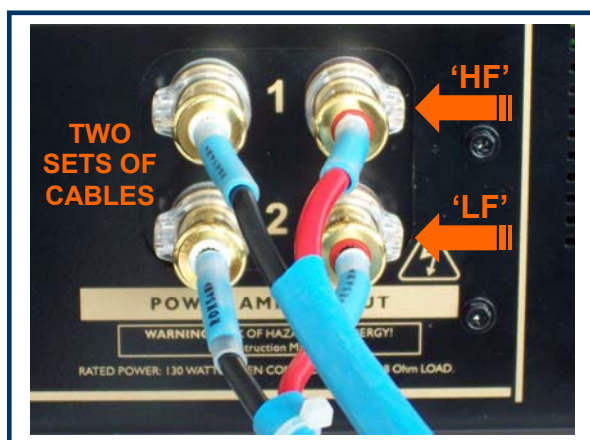
* Repeat for the other channel.



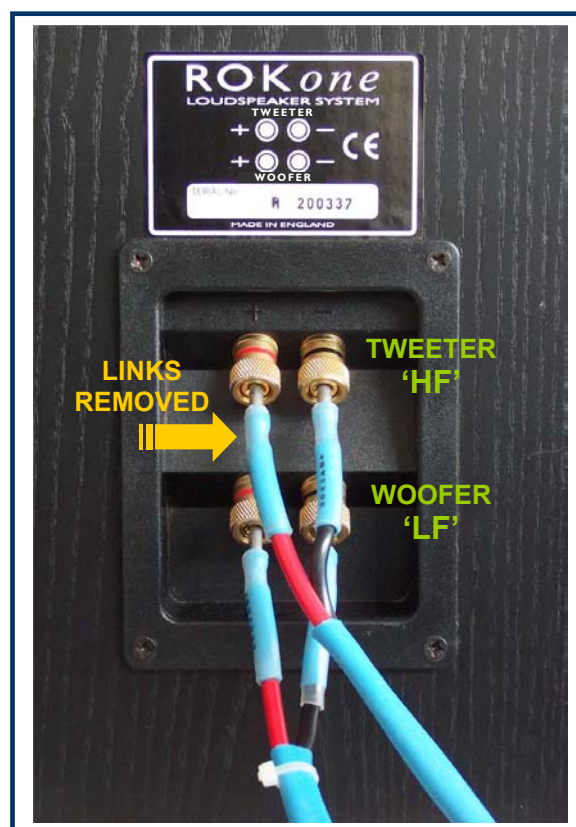
Bi- Wired configuration

NOTE:

Speaker terminal **Links** are **removed** and two sets of speaker cables are required to connect the amplifier's output (1) to the speaker's Tweeter input terminal and amplifier's output (2) to the speaker's Woofer input terminal.



* Repeat for the other channel.



Please refer to front & rear panel view on Pages 4 & 5.

SWITCHING ON

The Mains power switch (2) is on the front panel of the power amplifier. This switch is normally left on. **If the unit is likely to be unattended for a period of time (Week-end, Holidays etc.) switch it off and for absolute safety unplug the mains lead from the wall.**

When switched ON, after running a quick self-test, your **Platinum** Power Amplifier enters operational mode. The MODE Indicator Lights (1 & 3) will glow RED.

AUTOMATIC OPERATION

The **Platinum** Power Amplifier auto senses the audio signal and remains operational while there is a signal present with the MODE indicators RED. It will prepare itself for standby after approximately 2 minutes of no signal and the MODE indicators will change colour to ORANGE. If there is still no signal for about 20 minutes, it will go into stand by and the MODE indicators will glow GREEN. As soon as a signal is detected, it will come out of standby and revert to operational mode and the MODE indicators will glow RED again.

With this facility the **Platinum** Stereo Power Amplifier is ideal for Multi-amping, high-end A/V installations or in any application, (e.g. multi-room), where the amplifier is required to switch ON and OFF with the rest of the system with no loss of functionality.

KNOW YOUR STEREO POWER AMPLIFIER

- When you first power up from the Power Switch on the front panel, the amplifier runs a quick self-test and then enters operational mode with the Mode Indicators glowing RED.
- During Standby, the power consumption of the amplifier is reduced thus reducing generated heat.
- If the amplifier detects a fault, such as power rail failure, over current etc. it will go into protection mode and the indicator(s) will flash. You can bring the amplifier out of this mode by simply switching it Off and On; but only when the fault is cured (*for example after over heating or after over current detection*).
- The amplifier overheats through overload or lack of ventilation. Frequent occurrence of this requires relocating the unit where there is ample ventilation and/or bi-amping to ensure plenty of 'drive'.
- In the unlikely event of an internal fault such as a power supply fault, the amplifier will go to permanent Standby.

If you suspect that your ROKSAN **Platinum** power amplifier is not operating properly, you should check all the connections carefully. Phono plugs and XLR connectors should be fully inserted- a frequent cause of problems is that connectors do not make proper contact. Below are some commonly encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your appointed ROKSAN dealer or distributor.

SYMPTOM	LIKELY CAUSE	SUGGESTED REMEDY
No power	AC Mains lead not inserted properly Unit not switched on on the front panel IEC mains inlet fuses blown	Ensure AC Mains lead is fully inserted Switch unit on from the power button Replace with identical fuse type and rating and try again (only once)
No output on one or both channels	Amplifier in stand-by mode (MODE lights GREEN) Missing or bad input signal connection Input switch incorrectly set Missing or bad speaker connection	Check music is playing Check all input connections Check & set Input switch (RCA or XLR) Check all speaker connections
Very low sound output	Preamplifier set in MUTE position	Deselect MUTE (check volume setting first) on Preamplifier
Hum from speakers	Incorrect Grounding Poor choice of interconnect cables	Check Mains polarity and grounding on all connected equipment Change the interconnect cables

There are no user-serviceable parts inside your **Platinum** power amplifier. If a fault should develop, refer any servicing to your appointed ROKSAN dealer, distributor or approved service agent.

Your ROKSAN **Platinum** power amplifier is guaranteed against any defect in materials and workmanship for a period of **two years** from the date of purchase.

This guarantee only becomes effective if the warranty card is validated by the ROKSAN retailer from whom the equipment was purchased and returned to ROKSAN within **28 days** of purchase.

This guarantee excludes:

1. Damage caused due to accident, missuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.

All claims under this guarantee must be made through an authorised ROKSAN retailer.

If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification ROKSAN reserves the right to make a charge for examination and return carriage.

Unauthorised servicing will void this guarantee.

SPECIFICATION

Platinum Stereo Power Amplifier

Inputs	L & R (Switch-able RCA, MUTE, XLR Balanced)
Input Impedance	38 k Ω
Input Sensitivity	700mV RMS
Power Outputs	L & R Loudspeaker Binding Posts x2/Channel
Output Power	130 Watts, into 8 Ω 260 Watts, into 4 Ω 420 Watts, into 2 Ω
Power Supply	1kVA Ultra Low Noise Power Toroidal Transformer x3 Toroidal Transformers for Logic, Relay and Balanced inputs
Current Output	>80 Amps Peak to Peak <i>Transient</i>
Damping Factor	>440 (8 Ω) Up to 30kHz
Frequency response	-3dB, <2Hz – >100kHz
Gain	30.7dB
Harmonic Distortion	<0.001% 1kHz, 0.008% 20kHz 10W - 8 Ω 0.002% 1kHz, 0.02% 20kHz 100W - 8 Ω
Signal to Noise Ratio	>116dB (ref 100W, 8 Ω)
Power Source	100V – 120V 50Hz / 60Hz 220V – 240V 50Hz / 60Hz (via 10A Mains inlet filter)
Power Consumption	< 1300 W
Dimension	432 x 400 x 190 (W x D x H) mm 432 x 330 x 210 (including feet)
Weight	30 Kg

NOTES

Platinum Stereo Power Amplifier

Platinum Stereo Power Amplifier

Purchase Date

ROKSAN Retailer

Serial Number

Year

Month

Day

Name

Location

Please keep a record for future reference

Platinum



www.roksan.co.uk